2877

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INTELLECTUAL PROPERTY
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May 1, 2004

Commissioner for Patents
Box: 1450
Alexandria, VA 22313-1450

RE: APPLICATION OF JOHS ET AL. TITLED "SPECTROSCOPIC ROTATING COMPENSATOR ELLIPSOMETER SYSTEM WITH PSEUDO-ACHROMATIC RETARDER SYSTEM";
SERIAL NO.: 10/034,800;
FILE DATE: 12/28/2001;
ART UNIT: 2877;
EXAMINER: PHAM.

RESPONSE TO COMMUNICATION

Dear Sir;

I am in receipt of a Notice dated 04/28/04 regarding the identified Application, stating that Page 5 of a Response to Office Action filed 1/14/04 was missing. Please find accompanying a copy of said Page 5.

Sincerely,

JAMES D. WELCH
JW/hs
enc.

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS TRANSMITTAL IS BEING DEPOSITED WITH THE UNTIED STATES POSTAL SERVICE WITH SUFFICIENT POSTAGE FOR FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO THE COMMISSIONER FOR PATENTS, BOX: 1450, ALEXANDRIA VA. 22313-1450 ON THE DATE INDICATED BELOW.

5/4/04
JAMES D. WELCH DATE

retardations bounded by (30.0) to less than (135) degrees[[.]];

the compensator provides retardance which varies by less than ninety (90) degrees (max - min) within a range bounded by thirty (30.0) to less than one-hundred-thirty-five (135) degrees, over a range of wavelengths.

5. (original): A spectroscopic ellipsometer for evaluating a sample comprising:

broadband electromagnetic radiation source means generating a beam having wavelengths extending over a range of at least 200 to 800 nm;

polarizer means disposed in the path of said beam;

compensator means disposed in the path of the beam, said compensator for inducing phase retardations in the polarization state of the light beam, said compensator means being:

pseudo-achromatic;

in that the amount of phase retardation varies more with wavelength, over a range of wavelengths, than is the case if a substantially-achromatic compensator is utilized; but in that the amount of phase retardation varies less with wavelength, over said range of wavelengths, than is the case if a substantially-non-achromatic compensator is utilized, said compensator means being rotated at an angular frequency of ω;

analyzer means that interact with the beam after the beam interacts with the sample and the compensator means;